

# **LAFAYETTE CONSOLIDATED GOVERNMENT**

## **INTERNAL MEMORANDUM**

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**TO:** City-Parish Council

**DATE:** April 14, 2009

**FROM:** Tony Tramel

**SUBJ:** SafeLight / SafeSpeed Lafayette Programs

### **Background:**

The purpose of this memo is to provide statistics on the number of civil violation notices printed, revenue received, revenue collection ratios, and traffic crashes before and after implementing the SafeLight/SafeSpeed programs beginning in October 2007 through February 2009.

SafeLight Lafayette enforces red light running, while SafeSpeed Lafayette is the speed enforcement element of the Safe Lafayette program.

These two programs were approved by the City Parish Council on September 21, 2006, and were offered in an effort to modify dangerous driver behavior, related to speeding and the running of red lights in Lafayette. The program commenced with SafeSpeed Lafayette operations on October 1, 2007 while the SafeLight program began issuing notices of violation on January 1, 2008. A 30 day warning/notice period was initiated before these dates of implementation.

### **Printed Notices:**

The numbers of printed civil notices of violation associated with each program are updated monthly and are posted on Lafayette Consolidated Government's website for SafeLight and SafeSpeed as follows:

SafeLight: [http://www.lafayettela.gov/upload/images/traffic/pdf/safelight\\_printed\\_notices.pdf](http://www.lafayettela.gov/upload/images/traffic/pdf/safelight_printed_notices.pdf)

SafeSpeed: [http://www.lafayettela.gov/upload/images/traffic/pdf/safespeed\\_printed\\_notices.pdf](http://www.lafayettela.gov/upload/images/traffic/pdf/safespeed_printed_notices.pdf)

Tables of the data at these two links are attached as Exhibits A and B.

Number of SafeLight Notices Printed as of 1 PM 4-2-09

SafeLight

	Ambassador/Congress	Bertrand / Dulles	Congress/Ambassador	College / Johnston	Dulles/Ambassador	Gloria Switch / 149 Frontage	Johnston / Woodvale	Moss / Pont Des Mouton	Moss / Simcoe	Mudd / Moss	Pinhook / Simcoe	University / Simcoe	University / 10 Ramp	TOTAL
Jan-08			19	45					5	37				106
Feb-08		45	20	49	10		0	16	16				8	164
Mar-08		168	19	54	66	1	35	17	31	0	177			568
Apr-08		66	14	40	51	22	38	13	15	56	89			404
May-08		59	11	47	38	30	55	11	19	70	87			427
Jun-08		49	10	32	38	42	33	14	7	56	71			352
Jul-08		43	22	27	47	56	35	11	19	46	58			364
Aug-08		66	26	43	30	*	*	*	*	17	46	73		301
Sep-08		92	63	25	36	*	*	*	*	12	63	92		383
Oct-08		77	54	71	51	*	*	*	*	16	55	137		461
Nov-08		69	60	34	32	*	*	*	*	22	70	115		402
Dec-08		24	53	36	47	*	*	*	*	14	47	109		330
Jan-09		39	45	26	38	*	*	*	*	29	47	133		357
Feb-09	384	59	44	162	59	150	46	37	*	21	40	111		1113
TOTAL	384	59	841	162	475	150	575	521	151	196	87	275	596	5732

\* = removed

## Number of SafeSpeed Notices Printed as of 1 PM 4-2-09

## SafeSpeed

	Ambassador/Congress	Bertrand / Dulles	Congress/Ambassador	College / Johnston	Dulles/Ambassador	Gloria Switch / 149 Frontage	Johnston / Woodvale	Moss / Pont Des Mouton	Moss / Simcoe	Mudd / Moss	Pinhook / Simcoe	University / 110 Ramp	University / Simcoe	Speed Van 1	Speed Van 2	TOTAL
Oct-07														1098	1513	2611
Nov-07														1062	1134	2196
December (fixed speed began Dec 7)																
Jan-08			2	11					24	1389				988	511	2925
Feb-08			0	15					17	1883				759	1072	3746
Mar-08		0	0	0	0	829		0	10	1557		747		269	517	3929
Apr-08			2	0	0	5282	0	3	4	1546	0	12134	492	449		19912
May-08			1	0	0	2684	11	1	9	1057	1275	4624	202	541		10712
Jun-08			2	7	7	2276	16	35	9	868	1107	4224	298	543		9616
Jul-08			1	9	9	1432	39	44	4	835	876	3560	88	296		7424
Aug-08			2	11	11	2050	44	55	9	813	906	3549	163	322		8139
Sep-08			0	6	6	1460	*	*	*	592	509	2313	91	49		5239
Oct-08			1	4	4	1344	*	*	*	625	463	2506	219	62		5375
Nov-08			3	14	14	1733	*	*	*	652	635	3280	356	117		6967
Dec-08			1	9	9	1880	*	*	*	681	518	3029	540	526		7418
Jan-09			1	11	11	1809	*	*	*	733	532	2947	185	334		6703
Feb-09			1	8	8	1683	*	*	*	682	417	2716	337	362		6328
	43	51	2128	0	18	0	108	25657	110	138	86	14543	7577	47848	7531	8910
TOTAL	43	51	2128	0	18	0	108	25657	110	138	86	14543	7577	47848	7531	114748

\* = removed

## **Finances:**

Both the SafeLight and SafeSpeed programs are violator funded. The system vendor, Redflex, who was selected based on evaluation of competitive technical proposals, has invested their private resources without any LCG funding. They pay their employees and support staff from the funds due from a portion of collected violator notice funds. LCG has no direct tax dollars associated with the cost in the violator funded SafeLight/SafeSpeed programs. The vendor is responsible for all of the system's equipment, development, implementation and processing of the electronic images and related support. Lafayette Consolidated Government representatives review images and video captured for each alleged violation. LCG representatives solely determine if a violation of the Lafayette City-Parish Government's Code of Ordinances has occurred as it pertains to Electronic Enforcement of red light running and or speeding.

## **Disposition of Traffic Safety Fund:**

The LCG Code of Ordinances (Sections 86-183 and 86-190) prescribes violation fees are to be placed into a special traffic safety fund.

**"Funds deposited into this traffic safety account shall be expended first for the costs of the system (payment to the vendor/operator of the system, public relations (education), and general implementation for the program). After satisfying this requirement, remaining funds may be used for the following, including but not limited to: traffic or pedestrian public safety programs, intersection safety improvements, driver education, police officer's dedicated to traffic safety . . ."**

Approximately \$91,000 has been appropriated by LCG's City Parish Council for the general implementation" of the program for LCG violation review personnel who are retired police officers, and for adjudicators who are licensed, practicing attorneys. The review personnel verify the violation and confirm the vehicle plate matches the Department of Motor Vehicles registration information.

Persons can appeal the notice of violation by completing one of the forms provided with the notice of violation and an adjudication hearing will be scheduled for a Friday afternoon at City Hall. The adjudicators hear the appeal and render a decision as being responsible or not at the hearing. An additional \$30 adjudication fee is assessed only if the person is found responsible. If a person is aggrieved by the decision of the Adjudicator, an appeal can be made to the 15<sup>th</sup> Judicial District Court.

## **Revenue / Cost Analysis**

Through the month of February 2009, the total amount of paid violations which includes both the vendor's portion as well as Lafayette Consolidated Government's portion is shown in Exhibit C is:

		SafeLight	SafeSpeed
Vendor Revenue	\$1,679,862.35	--	--
<u>LCG Revenue</u>	<u>\$1,905,411.37</u>	<u>\$ 253,512.71</u>	<u>\$1,651,898.66</u>
Total through February 2009	\$3,585,273.22		

The total violation amount paid from the "net issued violations" through February, 2009 is 81%.

Lafayette Consolidated Government  
Safespeed Revenue Analysis

	Net Proceeds	Redflex Portion	LCG Portion	Redlight	Speeding
October 2007	458.46	320.50	137.96		137.96
<b>TOTAL FY07</b>	<b>458.46</b>	<b>320.50</b>	<b>137.96</b>	-	<b>137.96</b>
November 2007	33,329.63	12,522.25	20,807.38		20,807.38
December 2007	43,455.00	43,455.00			
January 2008	118,861.49	62,304.50	56,556.99	946.00	55,610.99
February 2008	93,024.10	45,338.00	47,686.10	2,580.00	45,106.10
March 2008	125,710.51	62,703.35	63,007.16	6,966.00	56,041.16
April 2008	394,639.40	198,937.50	195,701.90	19,608.00	176,093.90
May 2008	433,091.95	205,944.25	227,147.70	30,100.00	197,047.70
June 2008	408,557.90	179,675.00	228,882.90	23,613.50	205,269.40
July 2008	354,458.13	147,090.25	207,367.88	23,260.50	184,107.38
August 2008	293,379.36	122,872.50	170,506.86	19,999.85	150,507.01
September 2008	201,959.93	82,531.50	119,428.43	17,676.36	101,752.07
October 2008	209,173.93	92,419.75	116,754.18	21,022.70	95,731.48
<b>TOTAL FY08</b>	<b>2,709,641.33</b>	<b>1,255,793.85</b>	<b>1,453,847.48</b>	<b>165,772.91</b>	<b>1,288,074.57</b>
November 2008	206,308.73	100,409.00	105,899.73	22,615.71	83,284.02
December 2008	195,546.67	96,184.50	99,362.17	20,575.09	78,787.08
January 2009	255,578.09	127,930.00	127,648.09	25,192.41	102,455.68
February 2009	217,740.44	99,224.50	118,515.94 *	19,356.59	99,159.35
<b>SUBTOTAL FY09</b>	<b>875,173.93</b>	<b>423,748.00</b>	<b>451,425.93</b>	<b>87,739.80</b>	<b>363,686.13</b>
<b>LIFE TO DATE</b>	<b>3,585,273.72</b>	<b>1,679,862.35</b>	<b>1,905,411.37</b>	<b>253,512.71</b>	<b>1,651,898.66</b>
	100%	47%	53%		

\* Includes \$15,578.44 from May-08 to present when fines collected by collection agency was redefined

Reconciliation of LCG Portion to LCG General Ledger  
On General Ledger @ 10/31/08 P2  
Reconciliation of LCG Portion to LCG GL moved in Feb  
November collections deposited in December  
December collections deposited in January  
January collections deposited in February  
February collections deposited in March

30-101-35-8-005-01	30-101-35-8-005-02
165,772.91	1,288,212.53
30-207-35-8-005-01	30-207-35-8-005-01
22,615.71	83,284.02
20,575.09	78,787.08
25,192.41	102,455.68
19,356.59	99,159.35
<b>87,739.80</b>	<b>363,686.13</b>

Exhibit C indicates the percentage of total fees collected through February 2009 to be 53% for LCG and 47% for the vendor. The actual amount of violation fees for the vendor and LCG is prescribed within a LCG contract and is attached which is EXHIBIT "D" – COMPENSATION & PRICING.

### EXHIBIT "D" COMPENSATION & PRICING

Commencing at the expiration of the Warning Period (i.e. the "Commencement Date"), Lafayette City-Parish Consolidated Government (LCG) shall be charged by Redflex a fee as full remuneration for Redflex performing all services contemplated in this Agreement. Fees payable to Redflex shall be in accordance with the following identified SafeLight and SafeSpeed Lafayette tables and detail of same in this section:

#### SafeSpeed Lafayette Program

Recorded Speed Violation For Monitored Intersection Approach and Mobile Speed Vans	Fee per Paid Citation
Citations paid for >10 mph over limit, per calendar month	\$29.75
Citations paid for 5-10 mph over limit, per calendar month	\$15.50

#### SafeLight Lafayette Program

Tier	Citations Paid (Actual per Calendar Month at Each Monitored Intersection Approach for Red Light Running)	Fee per Paid Citation at Each Monitored Intersection Approach for Red Light Running
Tier 1	1-150 citations equivalent fully paid per calendar month	\$39.00
Tier 2	151 to 300 citations equivalent fully paid per calendar month	\$28.00
Tier 3	301 Plus citations equivalent fully paid per calendar month	\$15.50

Fees due to Redflex for paid red light running citations for each month at each Monitored Intersection Approach will be calculated in accordance with the following details:

- 1.) The number of paid citations from 1 to 150 for each month at each Monitored Intersection Approach will be paid at \$39 each.
- 2.) The number of paid citations per Monitored Intersection Approach per month exceeding 150 and below 300 will be paid at \$28 each.
- 3.) The number of paid citations per Monitored Intersection Approach per month exceeding 300, Redflex will be paid at \$15.50 each.

The violation fee for red light running is \$125. The vendor' portion is \$39 for the first 150 paid violations per approach per month, and decreases as the number of paid violations increases as shown.

The actual amounts to LCG vary because of a tiered system for red light running, as well as the recorded speed of the violator over the posted speed limit. This is because the violation amounts vary depending on the recorded speed of the violator, yet the compensation due the vendor is based on whether the violator was traveling 5-10 mph over the posted speed limit, (vendor is due \$15.50 per paid notice), or greater than 10 mph over the posted speed limit, (where the vendor is due \$29.75).

Therefore depending on the violators speed and the fine amounts for electronic enforcement shown below, the amounts due LCG vary. Late fees, where no response and or payment is received within 40 days from the notice of printing, incur an additional 50% of the original notice amount, and when paid are also posted to LCG, and not the vendor.

Posted Speed Limit	Violation Amount			
	\$25	\$50	\$100	\$150
	Recorded Speed			
25	31-35	36-40	41-45	>46
30	36-40	41-45	46-50	>51
35	43-45	46-50	51-55	>56
40	48-50	51-55	56-60	>61
45	N/A	55-60	61-65	>66
50	N/A	60-65	66-70	>71
55	N/A	65-70	71-75	>76
60	N/A	70-75	76-80	>81
65	N/A	75-80	81-85	>86
70	N/A	80-85	86-90	>91

#### Examples:

When a person pays a \$125 red light violation, the vendor receives \$39 for each paid violation below 150 violation per month, and LCG receive the remaining, \$86. All late fees are 100% LCG fees.

For a \$25 speeding violation, i.e. going 44 mph in a 35 zone, the vendor received \$15.50 and LCG receives the remaining or \$ 9.50.

For a \$50 speeding violation, i.e. going 47 in 35 mph zone, the vendor would receive \$29.75, and LCG would receive \$20.25

For a \$150 speeding violation, i.e. going 61 or greater in 40 mph zone, the vendor would receive \$ 29.75, and LCG would receive \$ 120.25

### **Traffic Crash Statistics at SafeLight Locations:**

The purpose of implementing the SafeLight/SafeSpeed programs was to change dangerous driver behavior. One method to evaluate whether the programs are having a positive impact is to compile traffic crash data. It is generally accepted in the transportation engineering profession that a technical and statistically significant comparison of before and after studies of traffic related changes require 3 years of before and after data.

One reason is because traffic crashes are in reality a very rare occurrence, i.e. in 2008 where approximately 30 million vehicles enter the intersection of Johnston and Ambassador Caffery, the total number of crashes is estimated to be approximately 150. If one were to assume there was on average 2.5 vehicles per crash, the total number of involved crash vehicles is 375

The ratio of involved traffic crash vehicles compared to total entering vehicles is:

375 crash vehicles / 30,000,000 entering vehicles = 0.0000125, which is only 0.00125%.

Since SafeLight and SafeSpeed have not been in place for 3 years, a trend analysis of traffic crash data has been performed. If a SafeLight intersection has been in place 14 months, a comparison of the same month 14 months prior has been compiled. The details of the dates of comparison are provided in the data analysis.

The results of this traffic crash trend compilation is depicted in the following graphic, noted as Exhibit E-1, and supporting details in Exhibits E-2 and E-3, for those locations where SafeLight systems have been operating.

The number of crashes at the SafeLight monitored locations reported by GPS coordinates within 100 feet of the intersection for respective months in a before and after period of time was found to be:

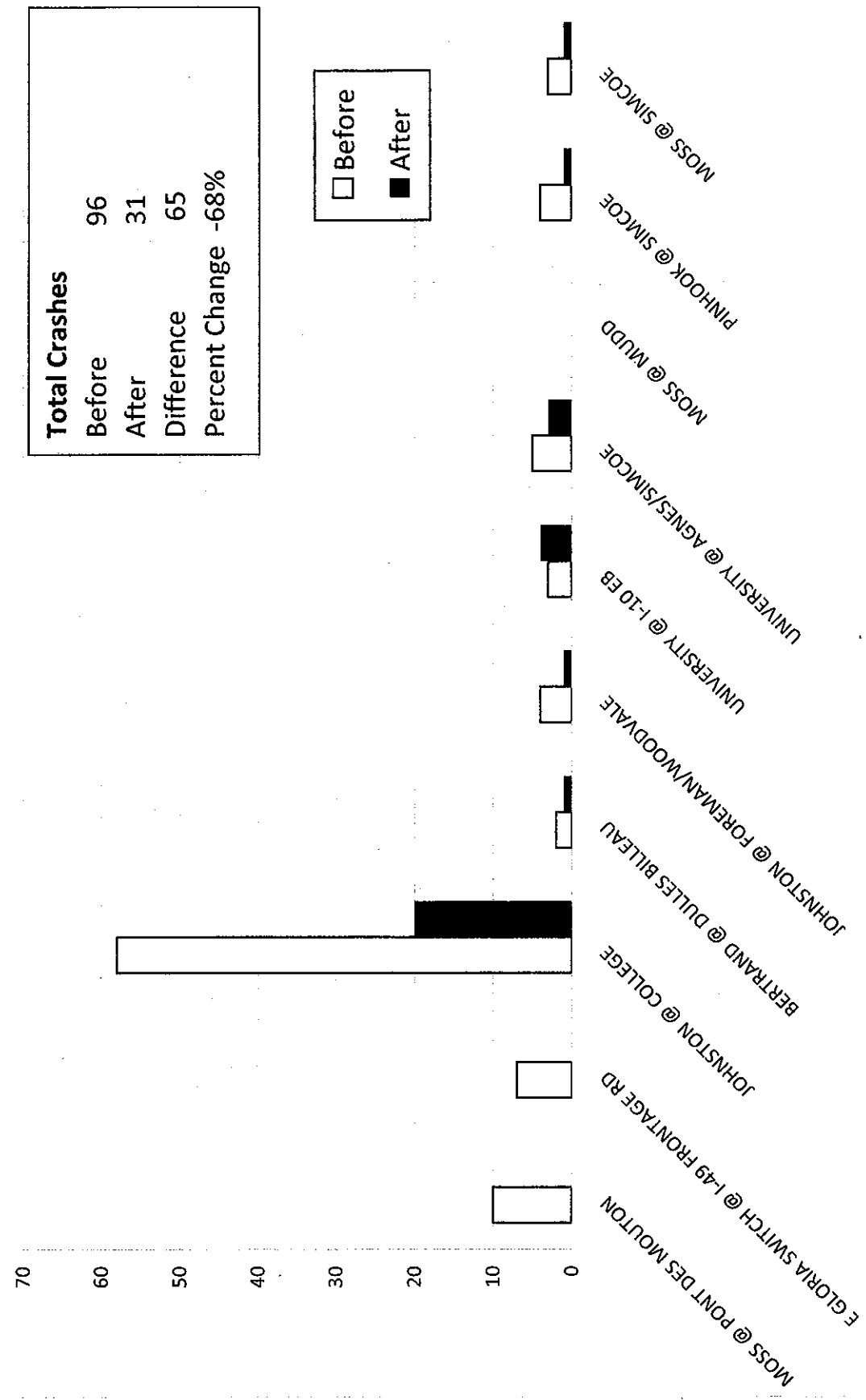
Summary of Traffic Crashes at Safelight Locations Within 100'				
	Before Period	After Period	Difference	Percent Change
Total crashes	96	31	-65	-68%
Right angle crashes	42	12	-30	-71%
Rear end crashes	31	7	-24	-77%

The number of traffic crashes above represents the same months of different years for the before and after time periods. Crashes were compiled from GPS coordinates within the LaCrash database, and are within 100' of roadway intersections.

Exhibit E-1 Before and After Crash Data SafeLight

4/13/09

Total Crashes at SafeLight Locations Within 100 ft  
Using Equal Time Periods For Before and After Conditions



AFTER	Crashes by GPS		ft from Int		1		4/13/2009	
	Start Date1	End Date1	Start Date2	End Date2	Total	Rear-End	Head On	Right Angle
MOSS @ PONT DES MOUTON	3/30/2008	8/16/2008						
E GLORIA SWITCH @ I-49 FRONTAGE RD	1/1/2008	4/1/2009						
JOHNSTON @ COLLEGE	1/1/2008	4/1/2009			20	4		7
BERTRAND @ DULLES BILLEAU	2/23/2008	4/1/2009			1			1
JOHNSTON @ FOREMAN/WOODVALE	2/23/2008	4/1/2009			1			
UNIVERSITY @ I-10 EB	3/30/2008	4/1/2009			4	1		2
UNIVERSITY @ AGNES/SIMCOE	2/23/2008	4/1/2009			3	2		1
MOSS @ MUDD	1/1/2008	8/16/2008						
PINHOOK @ SIMCOE	1/1/2008	4/1/2009			1			1
MOSS @ SIMCOE	2/23/2008	8/16/2008			1			1
Totals					31	7	0	12
								4

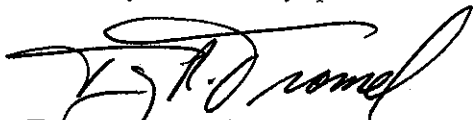
BEFORE	Crashes by GPS		ft from Int		100	
	Start Date1	End Date1	Start Date2	End Date2	Total	Side Swipe
MOSS @ PONT DES MOUTON	3/30/2007	8/16/2007			10	3
E GLORIA SWITCH @ I-49 FRONTAGE RD	1/1/2006	4/1/2007	1/1/2007	12/31/2007	7	1
JOHNSTON @ COLLEGE	1/1/2006	4/1/2006	1/1/2007	12/31/2007	58	21
BERTRAND @ DULLES BILLEAU	2/23/2006	4/1/2006	1/1/2007	2/22/2008	2	1
JOHNSTON @ FOREMAN/WOODVALE	2/23/2006	4/1/2006	1/1/2007	2/22/2008	4	2
UNIVERSITY @ I-10 EB	3/30/2007	3/29/2008			3	1
UNIVERSITY @ AGNES/SIMCOE	2/23/2006	4/1/2006	1/1/2007	2/22/2008	5	2
MOSS @ MUDD	1/1/2007	8/16/2007				
PINHOOK @ SIMCOE	1/1/2006	4/1/2006	1/1/2007	12/31/2007	4	1
MOSS @ SIMCOE	2/23/2007	8/16/2007			3	1
Totals					96	31
						1
						42
						10

	Total Before		Total After		ft from Int		100	
	#	%	#	%	Difference Total	Difference Rear-End	Difference Head On	Difference Side
MOSS @ PONT DES MOUTON	10	100%	0	0%	10	3	1	2
E GLORIA SWITCH @ I-49 FRONTAGE RD	7	100%	0	0%	7	1	0	1
JOHNSTON @ COLLEGE	58	66%	20	38%	38	17	0	18
BERTRAND @ DULLES BILLEAU	2	100%	1	50%	1	1	0	0
JOHNSTON @ FOREMAN/WOODVALE	4	100%	1	25%	3	2	0	1
UNIVERSITY @ I-10 EB	3	100%	4	133%	-1	0	0	0
UNIVERSITY @ AGNES/SIMCOE	5	100%	3	60%	2	-2	0	2
MOSS @ MUDD	0	0%	0	0%	0	0	0	0
PINHOOK @ SIMCOE	4	100%	1	25%	3	1	0	2
MOSS @ SIMCOE	3	100%	1	33%	2	1	0	0
TOTALS	96	100%	31	32%	65	24	1	6

Intersection	Activation Date	Speed Limit Sign Installation Date	Red Light Photo Enforced Signs Installation Date	Red Light Running and Speeding Photo Enforced Signs Installation Date	Removed From Service
Pinhook at Simcoe	Warning Period - Speed Notices 12-7-07; Red Light Notices 1-1-08	3/3/2008	12/3/2007	2/29/2008	
Moss at Mudd	Warning Period - Speed Notices 12-7-07; Red Light Notices 1-1-08	3/10/2008	12/4/2007	2/29/2008	8/15/2008 at 4:43 PM
S College at Johnston	Warning Period - Speed Notices 12-7-07; Red Light Notices 1-1-08	3/6/2008	12/3/2007	3/5/2008	
E Gloria Switch at I-49 Frontage Rd	Warning Period - Speed Notices 12-7-07; Red Light Notices 1-1-08	3/10/2008	12/4/2007	3/4/2008	
Moss at Simcoe	2-23-08 Midnight	3/10/2008	1/4/2008	3/4/2008	8/15/2008 at 4:43 PM
Johnson at Woodvale	2-23-08 Midnight	3/6/2008		2/22/2008	
Bertrand at Dulles	2-23-08 Midnight	3/6/2008	1/7/2008	3/4/2008	
Agness / Simcoe at University	2-23-08 Midnight	3/7/2008	1/7/2008	3/4/2008	
Moss at Pont Des Mouton	3-30-08 Midnight	3/28/2008		3/28/2008	8/15/2008 at 4:43 PM
University at I-10 East Ramp	3-30-08 Midnight	3/28/2008		3/28/2008	
Ambassador Caffery at Dulles	2-8-09 Midnight				
Ambassador Caffery at Congress	2-8-09 Midnight				

The reduction of traffic crashes appears to reflect a significant positive improvement in driver behavior, which was originally identified as the principal purpose of the SafeLight/SafeSpeed programs. This reduction in traffic crashes increases the efficiency of the traffic control and traffic flow efforts, and decreases the number of serious traffic rashes to which public safety agencies must respond at the expense of the taxpayers; thereby contributing to the overall public safety of Lafayette and, ultimately, the citizens of Lafayette.

Should you have any questions concerning this matter please contact me at 291-8546.



Tony R. Framel, P.E., P.T.O.E.  
Director of Traffic & Transportation

cp

#### Attachments

c: Joey Durel  
Dee Stanley  
Travis Smith